### Aim: - Write a Python program to display a table of a number.

#### Program:-

```
number = int(input ("Enter the number of which the user wants to print the table: "))

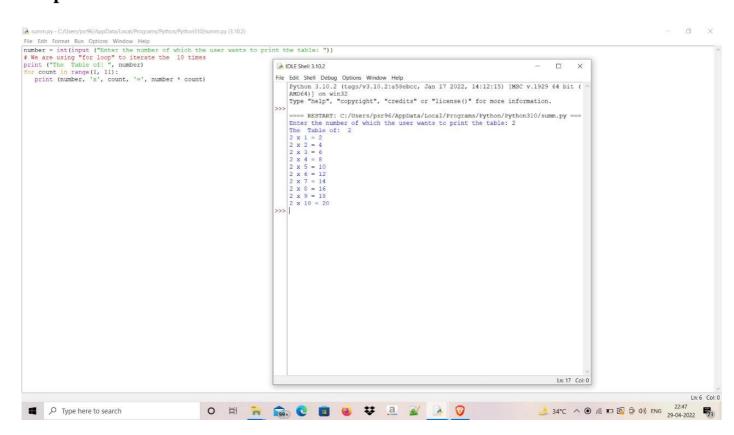
# We are using "for loop" to iterate the 10 times

print ("The Table of: ", number)

for count in range(1, 11):

print (number, 'x', count, '=', number * count)
```

### Output..



Result :- successfully executed

Aim: Write a Python program to calculate the tip from the bill and the quality of the service. if service is good then tip is 20% of the bill else it is 15% of the bill. Display the tip for the user.

```
print("What was the value of the bill?")
bill = input()

# Find out how the service was. This should be the word "good" or "bad". Any word other than

# "good" will be considered the same as "bad". print "How was the service?"
service = input()

# Good service gets a 20% tip. Bad service gets 15%.
if service == "good":

percentage = 0.20
else:
    percentage = 0.15

# Calculate and display the tip. The tip here is based on the whole bill, including tax. XXX We could

# remove the tax first. Perhaps ask the user whether they want the tax included in the calculation?
    tip = bill * percentage
    print(tip)
```

#### output.

```
Activities Thonny + Apr 29 2326

Thonny - /home/ripul/practice.py © 16:29

Thonny - /home/ripul/practice.py © 16:2
```

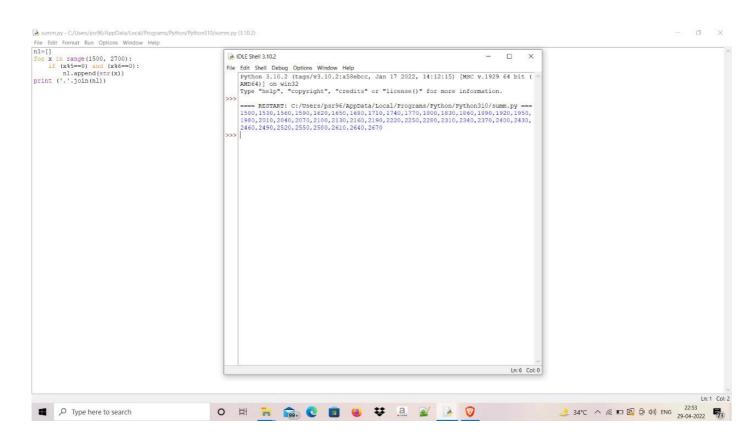
Result :- successfully executed

Aim: Write a Python program to find those numbers which are divisible by 5 and multiple of 6, between 1500 and 2700 (both included). Also print the sum of all numbers.

#### **Program**

```
nl=[]
for x in range(1500, 2700):
    if (x%5==0) and (x%6==0):
        nl.append(str(x))
print (','.join(nl))
```

#### Output..



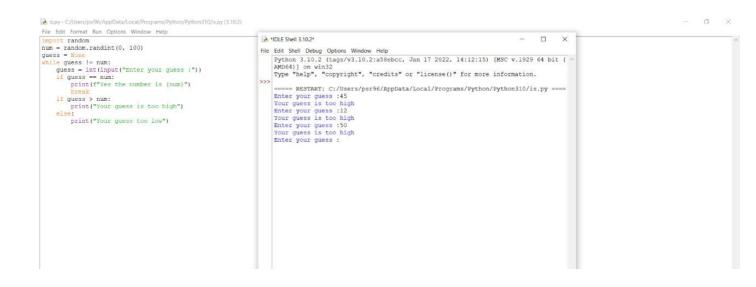
**Result** :- successfully execu

Aim: Write a Python program that randomly generates an integer between 0 and 100, inclusive. The program prompts the user to enter a number continuously until the number matches the randomly generated number. For each user input, the program tells the user whether the input is too low or too high, so the user can choose the next input intelligently. Also print the number of attempts to get the success.

#### **Program**

```
import random
num = random.randint(0, 100)
guess = None
while guess != num:
    guess = int(input("Enter your guess :"))
    if guess == num:
        print(f"Yes the number is {num}")
        break
    if guess > num:
        print("Your guess is too high")
    else:
        print("Your guess too low")
```

#### Output..



**Result** :- successfully executed.

<u>Aim:</u> Write a Python program that generates five questions and reports the number of the correct answers after a student answers all five questions.

#### **Program**

```
import random
import time
t=time.perf_counter()
c=0
for i in range(5):
  x = random.randint(0,100)
  y = random.randint(0,100)
  res = int(input(f"What is \{x\}-\{y\} = "))
  if res == x-y:
     c+=1
     print("Your answer is correct!")
     print("Your answer is wrong.")
     print(f''\{x\}-\{y\} \text{ should be } \{x-y\}'')
t = time.perf_counter() - t
print("Correct counter is : ",c)
print(f"Test time is {t:.2f} seconds")
```

#### Output..

```
What is 70-22 = 48

Your answer is correct!

What is 69-99 = -30

Your answer is correct!

What is 11-23 = -12

Your answer is correct!

What is 71-24 = 47

Your answer is correct!

What is 57-4 = 53

Your answer is correct!

Correct counter is : 5

Test time is 28.94 seconds

Process finished with exit code 0
```

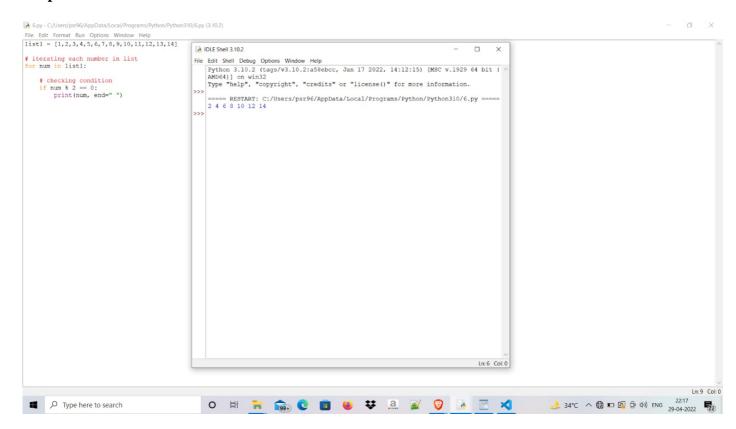
Result:-successfully executed.

# <u>Aim</u>:- Write a Python program to formulate a list comprehension that prints even numbers from a range of 1-14.

#### **Program**

```
list1 = [1,2,3,4,5,6,7,8,9,10,11,12,13,14]
for num in list1:
  if num%2 ==0:
    print(num,end="")
```

### **Output**



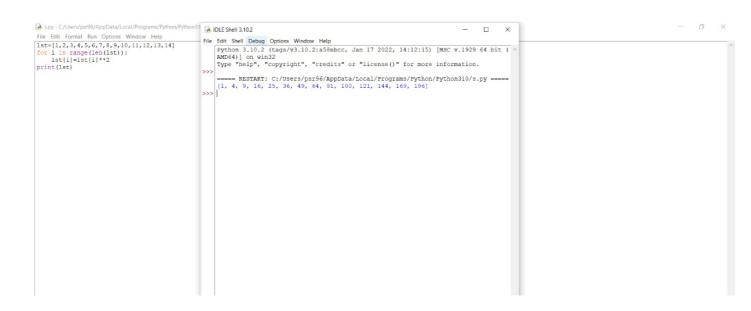
Result:-successfully executed

Aim: Write a Python program that formulates a list comprehension to calculate the squares of numbers in a list range of 1-14.

### **Program**

```
lst=[1,2,3,4,5,6,7,8,9,10,11,12,13,14]
for i in range(len(lst)):
    lst[i]=lst[i]**2
print(lst)
```

### Output..

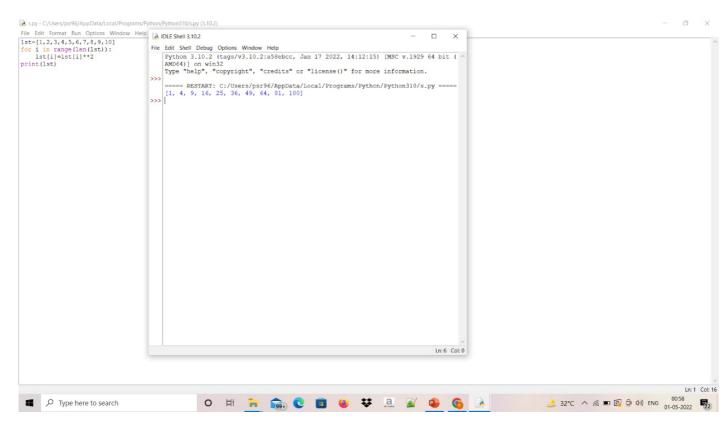


Result:-successfully executed

# **Aim :-** Write a Python program to calculate the squares of first 10 Natural Numbers using List comprehension.

lst=[1,2,3,4,5,6,7,8,9,10] for i in range(len(lst)): lst[i]=lst[i]\*\*2 print(lst)

### Output..



Result:-successfully executed

**Aim :-** Consider the following List: vehicle = ['car&','bus', 'truck','cycle', 'train';].Write a Python Program that capitalizes the strings that begin with 'C'.

#### **Program**

```
# Python code to convert all string
# from uppercase to lowercase.

# Initialisation
input = ['car', 'bus', 'truck', 'cycle', 'train']

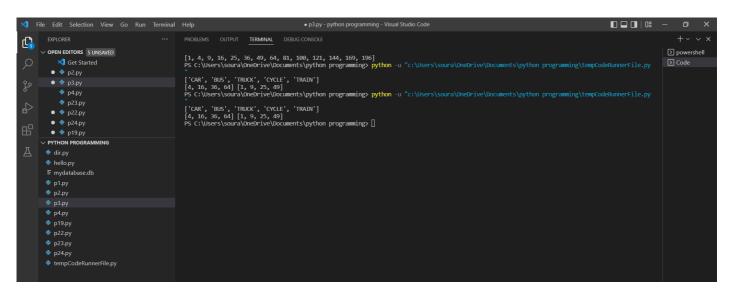
# Converting
lst = [x.upper() for x in input]
# printing output
print(lst)
L1=[1,2,3,4,5,6,7,8]

even_sq,odd_sq = [],[]

for i in L1:
    (even_sq if i%2==0 else odd_sq).append(i*i)

print(even_sq,odd_sq)
```

### Output...



**Result :-** Successfully created.

Aim :- Consider the following list: l1 = [1, 2, 3, 4, 5, 6, 7, 8, 9]. Write a Python Program to create a list comprehension to find the squares of Even numbers of l1.

### **Program**

```
L1=[1,2,3,4,5,6,7,8]

even_sq,odd_sq = [],[]

for i in L1:
    (even_sq if i%2==0 else odd_sq).append(i*i)

print(even_sq,odd_sq)
```

### Output..

**Result:-** successfully executed.

Aim: Write a Python Program to consider two lists with numeric values and make use of List comprehension to create another list that contains the common elements in both lists.

#### **Program**

```
# Python program to find the common elements
# in two lists
def common_member(a, b):

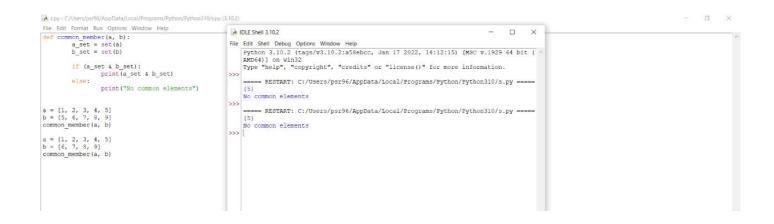
a_set = set(a)
b_set = set(b)

if (a_set & b_set):
	print(a_set & b_set)
else:
	print("No common elements")

a = [1, 2, 3, 4, 5]
b = [5, 6, 7, 8, 9]
common_member(a, b)

a = [1, 2, 3, 4, 5]
b = [6, 7, 8, 9]
common_member(a, b)
```

#### Output..



Result:- successfully executed

Aim :- Consider the following string: str ="Mohit=22,Deepak=11,Riya=19,Sumit=23". Write a Python Program to convert the following string into Dictionary with distinct Name & Camp; Age key pairs.

### **Program**

```
# Python3 code to convert
# a string to a dictionary

# Initializing String
string = "{'Mohit':22, 'Deepak':11, 'Riya':19, 'Sumit':23}"

# eval() convert string to dictionary
Dict = eval(string)
print(Dict)
print(Dict['Mohit'])
print(Dict['Mohit'])
print(Dict['Riya'])
print(Dict['Riya'])
```

#### Output..

```
| Space | Spac
```

Result:- successfully executed,

Aim: - Write a Python Program to count the number of occurrences of each letter in a string taken from user input.

#### **Program**

```
# Python Program to Count Occurrence of a Character in a String
string = input("Please enter your own String : ")
char = input("Please enter your own Character : ")
count = 0
for i in range(len(string)):
    if(string[i] == char):
        count = count + 1
print("The total Number of Times ", char, " has Occurred = " , count)
```

#### Output..

```
### Edit Format Run Options Window Help

string = input ("Please enter your own String: ")
char = input ("Please enter your own Character: ")

count = 0
for in range (len(string)):
    if(string(i) == char):
    count = count + 1

print("The total Number of Times ", char, " has Occurred = ", count)

#### IDLE Shell 3:102

#### IDLE Shell 3:102

#### Edit Shell Debug Options Window Help

Python 3:10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit ( ^ AMD64]) on win32

Type "help", "copyright", "credits" or "license()" for more information.

***Semestrate: C:/Users/psp:6/Appbata/Local/Programs/Python/Fython310/s.py ======

Please enter your own String: SHIVI

Please enter your own Character: S

The total Number of Times S has Occurred = 0

***Note: The total Number of Times S has Occurred = 0

***Note: The total Number of Times S has Occurred = 0

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```

Result:- successfully execute

Aim :- Write a Python Program to print Process IDs of a Python Process. If the process is a Parent Process, print Parent Process ID; if it is a Child Process, print both Parent & Child Process IDs.

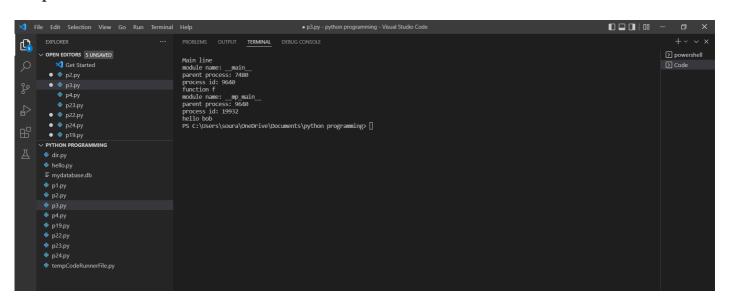
#### **Program**

```
from multiprocessing import Process import os def info(title):
    print(title)
    print('module name:', __name__)
    print('parent process:', os.getppid())
    print('process id:', os.getpid())

def f(name):
    info('function f')
    print('hello', name)

if __name__ == '__main__':
    info('Main line')
    p = Process(target=f, args=('bob',))
    p.start()
    p.join()
```

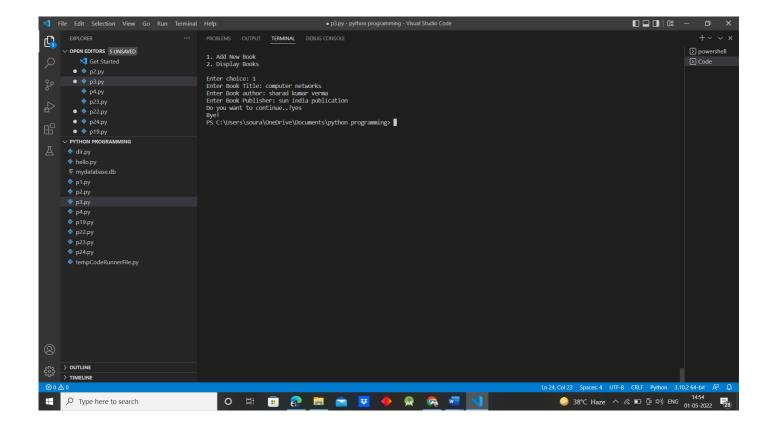
#### Output..



**Result :-** Successfully execute.

Aim :- Write a Menu-driven program that keeps record of books & journals available in a library. Create a class Book with a Constructor to initialize title, author & price. Create two member functions read() & price () in the same class. Your menu must display two choice: 1- add new book; 2- display book.

```
class library:
  def _init_(self):
     self.title=""
    self.author=""
     self.publisher=""
  def read(self):
     self.title=input("Enter Book Title: ")
     self.author=input("Enter Book author: ")
     self.publisher=input("Enter Book Publisher: ")
  def display(self):
     print("Title:", self.title)
    print("Author:", self.author)
     print("Publisher:", self.publisher)
     print("\n")
my book=[]
ch='y'
while(ch=='y'):
  print("
1. Add New Book
2. Display Books
  choice=int(input("Enter choice: "))
  if(choice==1):
     book=library()
     book.read()
     my_book.append(book)
  elif(choice==2):
     for i in my_book:
       i.display()
  else:
     print("Invalid choice!")
  ch=input("Do you want to continue..?")
print("Bye!")
```

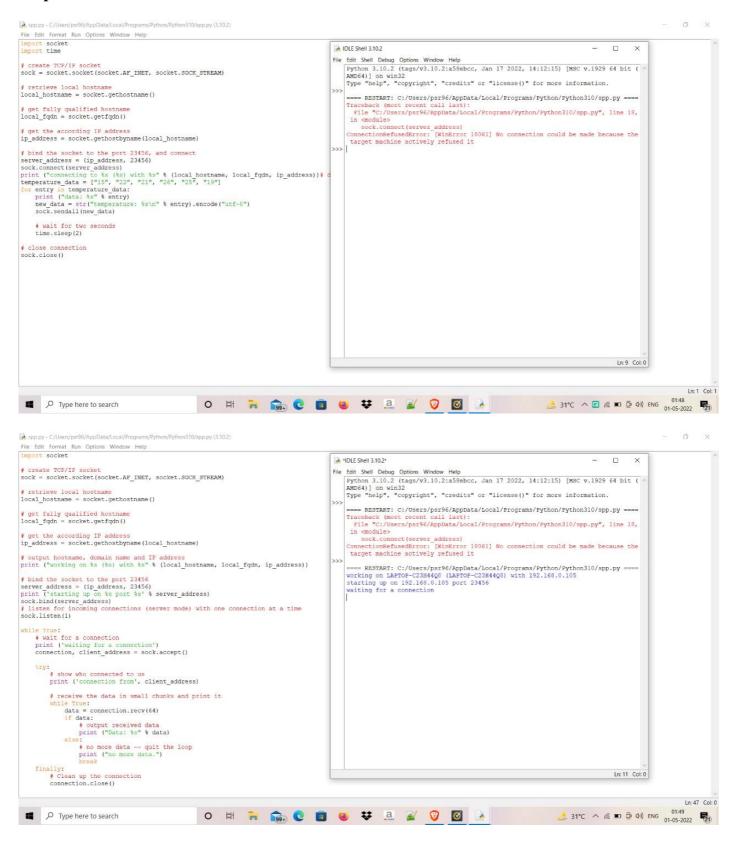


Result:- successfully executed

Aim :- Write a socket program to create communication between client & server.

```
Server.py
import socket
import time
# create TCP/IP socket
sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
# retrieve local hostname
local_hostname = socket.gethostname()
# get fully qualified hostname
local_fqdn = socket.getfqdn()
# get the according IP address
ip_address = socket.gethostbyname(local_hostname)
# bind the socket to the port 23456, and connect
server_address = (ip_address, 23456)
sock.connect(server_address)
print ("connecting to %s (%s) with %s" % (local_hostname, local_fqdn, ip_address))# define example data
to be sent to the server
temperature_data = ["15", "22", "21", "26", "25", "19"]
for entry in temperature_data:
  print ("data: %s" % entry)
  new_data = str("temperature: %s\n" % entry).encode("utf-8")
  sock.sendall(new_data)
  # wait for two seconds
  time.sleep(2)
# close connection
sock.close()
client.py
import socket
# create TCP/IP socket
sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
```

```
# retrieve local hostname
local_hostname = socket.gethostname()
# get fully qualified hostname
local_fqdn = socket.getfqdn()
# get the according IP address
ip address = socket.gethostbyname(local hostname)
# output hostname, domain name and IP address
print ("working on %s (%s) with %s" % (local_hostname, local_fqdn, ip_address))
# bind the socket to the port 23456
server_address = (ip_address, 23456)
print ('starting up on %s port %s' % server_address)
sock.bind(server_address)
# listen for incoming connections (server mode) with one connection at a time
sock.listen(1)
while True:
  # wait for a connection
  print ('waiting for a connection')
  connection, client_address = sock.accept()
  try:
    # show who connected to us
    print ('connection from', client_address)
    # receive the data in small chunks and print it
    while True:
       data = connection.recv(64)
       if data:
         # output received data
         print ("Data: %s" % data)
       else:
         # no more data -- quit the loop
         print ("no more data.")
         break
  finally:
    # Clean up the connection
    connection.close()
```



Result:- successfully executed

Aim :- Write a socket program to create communication between client & server & receive message from both end.

```
import socket
import time
# create TCP/IP socket
sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
# retrieve local hostname
local_hostname = socket.gethostname()
# get fully qualified hostname
local_fqdn = socket.getfqdn()
# get the according IP address
ip_address = socket.gethostbyname(local_hostname)
# bind the socket to the port 23456, and connect
server_address = (ip_address, 23456)
sock.connect(server address)
print ("connecting to %s (%s) with %s" % (local_hostname, local_fqdn, ip_address))
# define example data to be sent to the server
temperature_data = ["15", "22", "21", "26", "25", "19"]
for entry in temperature_data:
  print ("data: %s" % entry)
  new_data = str("temperature: %s\n" % entry).encode("utf-8")
  sock.sendall(new_data)
  # wait for two seconds
  time.sleep(2)
# close connection
sock.close()
```

### Server.py

```
import socket
# create TCP/IP socket
sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
# retrieve local hostname
local_hostname = socket.gethostname()
# get fully qualified hostname
local_fqdn = socket.getfqdn()
# get the according IP address
ip_address = socket.gethostbyname(local_hostname)
# output hostname, domain name and IP address
print ("working on %s (%s) with %s" % (local_hostname, local_fqdn, ip_address))
# bind the socket to the port 23456
server_address = (ip_address, 23456)
print ('starting up on %s port %s' % server_address)
sock.bind(server_address)
# listen for incoming connections (server mode) with one connection at a time
sock.listen(1)
while True:
  # wait for a connection
  print ('waiting for a connection')
  connection, client_address = sock.accept()
  try:
    # show who connected to us
    print ('connection from', client_address)
    # receive the data in small chunks and print it
    while True:
       data = connection.recv(64)
       if data:
         # output received data
         print ("Data: %s" % data)
       else:
         # no more data -- quit the loop
```

```
print ("no more data.")
break
finally:
```

```
connecting to LAPTOP-27N0IAA7 (LAPTOP-27N0IAA7) with 192.168.137.1 data: 15 data: 22 data: 21 data: 26 data: 25 data: 19

Process finished with exit code 0
```

```
working on LAPTOP-27N0IAA7 (LAPTOP-27N0IAA7) with 192.168.137.1 starting up on 192.168.137.1 port 23456 waiting for a connection connection from ('192.168.137.1', 46343)
Data: b'temperature: 15\n'
Data: b'temperature: 22\n'
Data: b'temperature: 21\n'
Data: b'temperature: 26\n'
Data: b'temperature: 25\n'
Data: b'temperature: 19\n'
no more data.
waiting for a connection
```

**Result :-** Successfully executed.

Aim :- Write a program to create communication between client & server & se

```
Server.py
import socket
s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)
host=socket.gethostname()
port=1255
s.bind((host,port))
s.listen(5)
socketclient,address = s.accept()
print("got connection from ",address)
con=True
while con:
  msg=socketclient.recv(1024)
  msg=msg.decode("utf-8")
  print(msg)
  if msg == "quit":
    con = False
    s.close()
client.py
import socket
s = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
host=socket.gethostname()
port=1255
s.connect((host,port))
con=True
while con:
  msg=input("enter msg :")
  #s.send(bytes(msg))
  s.send(msg.encode("utf-8"))
  if msg == "quit":
    con = False
    s.close()
```



**Result:-** Successfully executed.

Aim :- Write a program to read a URL. Parse the URL and handle the error in fetching the URL.

#### **Program**

```
from urllib.request import Request, urlopen
from urllib.error import URLError
req = Request(someurl)
try:
    response = urlopen(req)
except URLError as e:
    if hasattr(e, 'reason'):
        print('We failed to reach a server.')
        print('Reason: ', e.reason)
    elif hasattr(e, 'code'):
        print('The server couldn\'t fulfill the request.')
        print('Error code: ', e.code)
else:
    # everything is fine
```

#### Output..

Result:- Successfully Execute

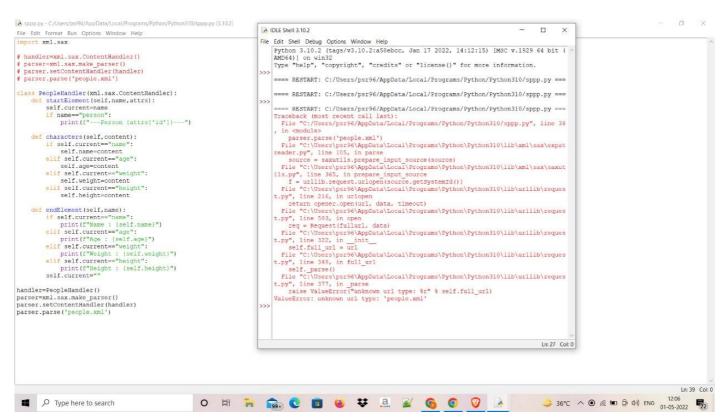
Aim :- Create a XML file and parse XML with SAX (Simple API for XML).

```
#!/usr/bin/python
import xml.sax
class MovieHandler(xml.sax.ContentHandler):
 def __init__(self):
   self.CurrentData = ""
   self.type = ""
   self.format = ""
   self.year = ""
   self.rating = ""
   self.stars = ""
   self.description = ""
# Call when an element starts
def startElement(self, tag, attributes):
 self.CurrentData = tag
   if tag == "movie":
     print "*****Movie*****"
     title = attributes["title"]
     print "Title:", title
# Call when an elements ends
def endElement(self, tag):
if self.CurrentData == "type":
print "Type:", self.type
 elif self.CurrentData == "format":
print "Format:", self.format
 elif self.CurrentData == "year":
print "Year:", self.year
 elif self.CurrentData == "rating":
 print "Rating:", self.rating
elif self.CurrentData == "stars":
  print "Stars:", self.stars
elif self.CurrentData == "description":
 print "Description:", self.description
self.CurrentData = ""
 # Call when a character is read
 def characters(self, content):
   if self.CurrentData == "type":
     self.type = content
   elif self.CurrentData == "format":
     self.format = content
     elif self.CurrentData == "year":
     self.year = content
```

```
elif self.CurrentData == "rating":
    self.rating = content
elif self.CurrentData == "stars":
    self.stars = content
elif self.CurrentData == "description":
    self.description = content

if ( __name__ == "__main__"):

# create an XMLReader
    parser = xml.sax.make_parser()
# turn off namepsaces
    parser.setFeature(xml.sax.handler.feature_namespaces, 0)
# override the default ContextHandler
Handler = MovieHandler()
parser.setContentHandler( Handler )
parser.parse("movies.xml")
```



Result:- Successfully Execute

Aim :- Write a GUI program to calculate the area of a circle and display both in a text box.

```
from tkinter import*
def calcArea(r):
  return 3.14*(r**2)
def clickArea():
  area.set(calcArea(height.get()))
root = Tk()
root.title("Calculate Area")
Label(root, text="Radius").grid(row=0, column=0)
width = IntVar()
#Entry(root, textvariable=width).grid(row=0, column=1)
#Label(root, text="Value of pi ").grid(row=1, column=0)
height = IntVar()
Entry(root, textvariable=height).grid(row=1, column=1)
Label(root, text="Area").grid(row=2, column=0)
area = IntVar()
Label(root, textvariable=area).grid(row=2, column=1)
button = Button(root, text="Calculate Area", command=clickArea)
button.grid(row=3, column=0, columnspan=2)
root.mainloop()
```

Result:- successfully executed

Aim :- Write a python SQLite program to create a student table with the following fields: Registration\_no, Name, Phone\_no, Branch, Year Perform the following operations:

- a. Insert 5 records in table.
- b. Display First Record only
- c. Display all Records
- d. Update any Record
- e. Delete any one Record.

#### Code

```
import sqlite3
conn=sqlite3.connect('test5.db')
print('Opened sucessfully')
import sqlite3
conn=sqlite3.connect('test6.db')
print('Opened sucessfully')
command="create table student(Reg_no text,Name text,Branch text,Year int)"
conn.execute(command)
print("Command executed sucessfully")
# Insert data in table
import sqlite3
conn=sqlite3.connect('test6.db')
print('Opened sucessfully')
command="insert into student (Reg no,Name,Branch,Year) values ('RA12304','Rituraj','MCA',1)"
conn.execute(command)
command="insert into student (Reg_no,Name,Branch,Year) values ('RA12305','Sarita','MCA',1)"
conn.execute(command)
command="insert into student (Reg_no,Name,Branch,Year) values ('RA12305','Tejveer','MCA',1)"
conn.execute(command)
command="insert into student (Reg_no,Name,Branch,Year) values ('RA12321','Deepak','MCA',1)"
conn.execute(command)
command="insert into student (Reg_no,Name,Branch,Year) values ('RA12327','Suraj','MCA',1)"
conn.execute(command)
command="insert into student (Reg no,Name,Branch,Year) values ('RA12332','Roshan','MCA',1)"
conn.execute(command)
conn.commit()
print("Record Inserted sucessfully")
# Retreive record from table
import sqlite3
```

```
conn=sqlite3.connect('test6.db')
print('Opened sucessfully')
# ----It will print the object -----
command="select * from student"
result=conn.execute(command)
# print(result)
# ----- Print the list of tuples ------
r=result.fetchall()
print(r)
# ----- Print the first tuple -----
r2=result.fetchone()
print(r2)
# for i in result:
   print(i)
# print('Reg_no | Name
                           | Branch | Year')
# for i in result:
    Reg_no,Name,Branch,Year=i
    print(Reg_no," ",Name," ",Branch," ",Year)
print("Record Printed sucessfully")
# Udation of record in table
import sqlite3
conn=sqlite3.connect('test6.db')
print('Opened sucessfully')
command="update student set Name='Shivam' where Reg_no='RA12332'"
result=conn.execute(command)
conn.commit()
print("Total Changes : ",conn.total_changes)
print('Reg_no | Name | Branch | Year')
result=conn.execute("select * from student")
for i in result:
  Reg_no,Name,Branch,Year=i
  print(Reg_no," ",Name," ",Branch," ",Year)
# To delete a particular record
import sqlite3
conn=sqlite3.connect('test6.db')
print('Opened sucessfully')
```

```
command="delete from student where Name='Shivam'"
conn.execute(command)
conn.commit()
print("Total Changes : ",conn.total_changes)

result=conn.execute("select * from student")
for i in result:
    Reg_no,Name,Branch,Year=i
    print(Reg_no," ",Name," ",Branch," ",Year)
```

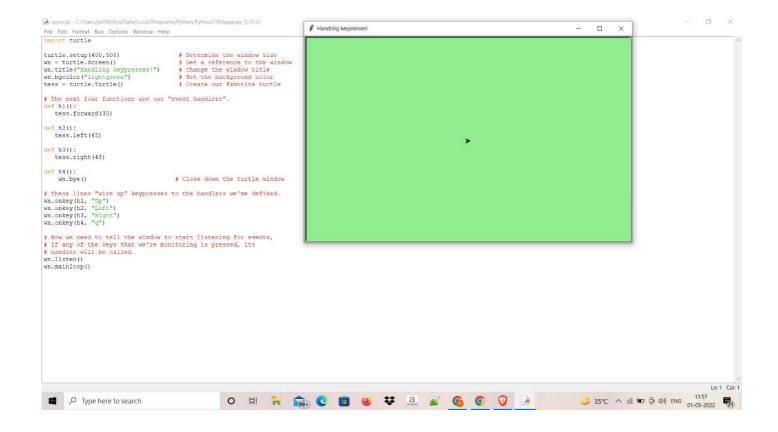
```
Record Inserted sucessfully
Opened sucessfully
[('RA12304', 'Rituraj', 'MCA', 1), ('RA12305', 'Sarita', 'MCA', 1), ('RA12305', 'Tejv eer', 'MCA', 1), ('RA12321', 'Deepak', 'MCA', 1), ('RA12327', 'Suraj', 'MCA', 1), ('RA12332', 'Roshan', 'MCA', 1)]
None
Record Printed sucessfully
Opened sucessfully
Total Changes : 1
                           | Branch | Year
Reg_no |
               Name
RA12304
              Rituraj
                              MCA
RA12305
              Sarita
                             MCA
RA12305
              Tejveer
                              MCA
RA12321
             Deepak
                             MCA
RA12327
              Suraj
                            MCA
RA12332
              Shivam
                             MCA
Opened sucessfully
Total Changes : 1
RA12304
              Rituraj
                              MCA
RA12305
              Sarita
                             MCA
RA12305
              Tejveer
                              MCA
                                         1
RA12321
              Deepak
                             MCA
RA12327
              Suraj
                            MCA
(base) C:\Users\wwwri\OneDrive\Desktop\Python Programs>
```

**Result :-** Successfully executed.

#### Aim:- Write an event driven program in python.

#### **Code**

```
import turtle
                              # Determine the window size
turtle.setup(400,500)
wn = turtle.Screen()
                              # Get a reference to the window
wn.title("Handling keypresses!")
                                   # Change the window title
wn.bgcolor("lightgreen")
                                 # Set the background color
tess = turtle.Turtle()
                             # Create our favorite turtle
# The next four functions are our "event handlers".
def h1():
 tess.forward(30)
def h2():
 tess.left(45)
def h3():
 tess.right(45)
def h4():
  wn.bye()
                          # Close down the turtle window
# These lines "wire up" keypresses to the handlers we've defined.
wn.onkey(h1, "Up")
wn.onkey(h2, "Left")
wn.onkey(h3, "Right")
wn.onkey(h4, "q")
# Now we need to tell the window to start listening for events,
# If any of the keys that we're monitoring is pressed, its
# handler will be called.
wn.listen()
wn.mainloop()
```



#### Result: - Successfully Execute

Aim :- Write a program to create a login window . Use dialogue boxes to display all the operations.

#### Code

```
from tkinter import *
from tkinter import messagebox
window=Tk()
window.title('Login Screen')
window.geometry('400x150')
11=Label(window,text='Username:',font=(14))
12=Label(window,text='Password:',font=(14))
11.grid(row=0,column=0,padx=5,pady=5)
12.grid(row=1,column=0,padx=5,pady=5)
username=StringVar()
password=StringVar()
t1=Entry(window,textvariable=username,font=(14))
t2=Entry(window,textvariable=password,font=(14),show='*')
t1.grid(row=0,column=1)
t2.grid(row=1,column=1)
def login():
  if username.get()=='admin' and password.get()=='admin':
    messagebox.showinfo(title='Login Status',message='You have logged in')
  else:
    messagebox.showerror(title='Login Error',message='Username/Password incorrect')
def cancel():
  status=messagebox.askyesno(title='Question',message='Do you want to close the window?')
  if status==True:
    window.destroy()
  else:
    messagebox.showwarning(title='Warning Message',message='Please Login Again!!')
b1=Button(window,command=login,text='Login',font=(14))
b2=Button(window,command=cancel,text='Cancel',font=(14))
b1.grid(row=2,column=1,sticky=W)
b2.grid(row=2,column=1,sticky=E)
window.mainloop()
```

